

scanning and stop on that channel for the duration of the call.

## Low Power Alert

1. When the battery power becomes low during transmitting, receiving, or standby mode, the LED will flash red and the radio will announce "battery low". You must charge the current battery or replace with a fully charged battery.

## Battery Saving

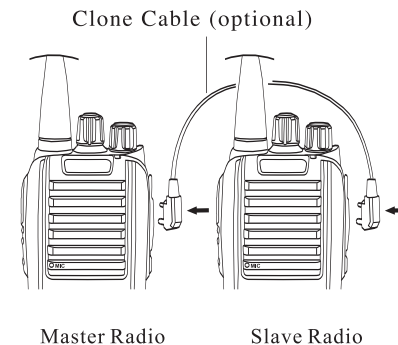
1. If there is no signal or operation after 5 seconds, the battery saving function will occur automatically; when signal is received or transmitted, the radio will switch to normal power mode.
2. Multiple battery save functions can be done through the programming software (default is on).

## Wired Clone

1. Cloning can be done with the programming software and cloning cable.
2. Connect the master radio to the slave radio with the cloning cable, and then turn on the slave radio.
3. Press left lower key on master radio for about 3 seconds until LED glows red, release it, then LED glows red and green at the same time, which means the master radio is ready for cloning.
4. Short-press left lower key on master radio again, the red light flashes, and green light on slave radio flashes at the same time, after they stop flashing, clone is finishing.
5. Change another slave radio, connect it to master radio, and press left lower key on master radio again for more same operation.

Note:

If red and green lights on both master and slave radios flash at the same time, it means cloning has failed.



## Optional Accessories

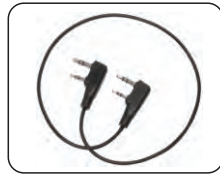
Optional Accessories are available according to your requirements, including:



Programming Cable



Audio Accessories



Clone Cable

## Trouble Shooting

Problem	Solution
No Power	<ul style="list-style-type: none"> <li>The battery power may be insufficient. Please charge current battery or change to a fully charged battery.</li> </ul>
The battery power consumes quickly after charge.	<ul style="list-style-type: none"> <li>The battery life is finished; a new battery would be required.</li> </ul>
Can not communicate with other members.	<ul style="list-style-type: none"> <li>Please check if your frequency and CTCSS/DCS are the same with other members in your group.</li> <li>Possibility of being too far away from other members. Please check if you are within communication range.</li> </ul>
Voices of non-group members are heard on the channel.	<ul style="list-style-type: none"> <li>Please change CTCSS/DCS, and change those of your members also.</li> </ul>
No sound or very low sound are received by partner when transmitting.	<ul style="list-style-type: none"> <li>Please check if the volume is turned to its highest level.</li> <li>Be sure to speak directly into the microphone on the radio.</li> </ul>
No reception on the channel.	<ul style="list-style-type: none"> <li>You may be too far away from other members and cannot receive. Please check if you are within communication range and try again.</li> </ul>

## Care and Maintenance

These recommendations can help you use the radio effectively and years of continued use.

- Keep the radio dry. Rain, moisture or other liquid may cause damage to the radio.
  - Do not throw, hit or vibrate the radio. This may cause damage to the inner IC or other elements and void the warranty.
  - Do not hold the radio by the antenna or external audio accessories.
  - Please use the original or standard antenna. Unapproved antenna or modifications of accessories may cause damage to the radio.
  - Cover the earphone/microphone pad when not using the radio for a long time.
- Use a mild detergent (not corrosive chemicals) and cloth to clean the casing.



Note:

All recommendations above also refer to the battery, charger and accessories.

## Warranty Statement

Shenzhen HQT Science & Technology Co. Ltd. offers to the original end user:

*One (1) Year Limited Warranty on HQT Spartan Series Radios (separate warranty period on accessories).*

*One (1) Year Limited Warranty on Accessories (includes, but not limited to, batteries, antennas, belt clips, chargers, audio accessories, nylon cases, leather cases, etc.) .*

HQT warrants each new radio product manufactured or supplied by it to be free from defects in material and workmanship under normal use and service for the time period stated, provided that the user has complied with the requirements stated herein. The warranty period begins on the date of purchase from an Authorized HQT Dealer. This warranty is not assignable or transferable. This warranty is void if the product serial number is altered, defaced or removed. HQT is not responsible for any equipment that is attached to or used in conjunction with our products.

During the warranty period, if the product fails to function under normal use, because of manufacturing defects or workmanship, it should be returned to the Authorized HQT Dealer from which it was purchased. The Authorized HQT Dealer will repair the product or return the product for repair to HQT or its Authorized Repair Depot. The user is responsible for the removal of the product from a vehicle or any equipment attached to it, or other site of its use; transportation of the product to the Authorized HQT Dealer; for the return of the repaired or replacement product to the site of its use and

for the reinstallation of the product.

HQT shall have no obligation to make repairs or replacement of product which results from normal wear and tear, or is necessitated by catastrophe, fault, or negligence of the user, improper or unauthorized alterations or repairs to the product, incorrect wiring, use for which it was not designed or by causes external to the product. HQT's sole obligation shall be to replace or repair the product covered by the warranty. Replacement is done at HQT's discretion and may consist of a similar or higher featured product. Repair may include the replacement of parts with functionally equivalent new or reconditioned parts. All replaced parts and accessories are warranted for the balance of the original time period. All parts and accessories that are replaced become the property of Shenzhen HQT Science & Technology Co. Ltd.

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## Appendix

### Appendix I: Specification

Item	TH-368
Frequency Range	136~174MHz/400~470MHz
Channel Number	16
Normal Voltage	DC 7.5V
Working Temperature	-25°C ~55°C
Li-ion Battery	1500mAh
Antenna Impedance	50 Ω
Output Power	5/1W VHF, 4/1W UHF

Modulation Mode	8k ΦF3E
Max. Frequency Deviation	≤ ±2.5kHz
Audio Distortion	≤5%
Frequency Stability	±2.5PPM
Receiving Sensitivity	0.25μV
Audio Power	700mW
Weight	203g
Dimension	116×56×34mm

### Appendix II: Technical Terms

Name	Description
Standby	The radio is in receiving mode when no key is operated.
CTCSS / DCS	CTCSS/DCS is a tone attached to an audio signal. If the CTCSS or DCS tone of the transmitter matches that of the receiver, the speaker is unmuted and the audio will be heard. If they do not match, no audio will be heard.
Battery Save	If there is no signal being received or no operation being conducted for some time, the radio will enter into power saving mode. In this mode, the radio will stop working at regular intervals to save power.
TOT	The Time Out Timer (TOT) is used to prevent extended periods of transmitting. If an extended period of transmitting occurs, this can cause damage to the circuitry of the radio.
Squelch	This is to solve the problem of talk quality and noise. Squelch is to suppress the background noise and keep the radio quiet when no signal is received. It can mute the radio when no signal is received. Turn on the Squelch, and you will hear the sound from the speaker.

Squelch On	In the on condition, the radio is receiving all audio signals.
Monitor	This function enables you to hear all the calls even with unmatched CTCSS/DCS.
Scan	Allows the radio to receive calls on multiple channels.
BCL	When this channel is in use by other users, your radio is prohibited to transmit on the channel to avoid interference.
VOX	VOX enables user to speak into the radio without pressing [PTT] key and the sound is transmitted.
Wired Clone	This is a way to clone parameters from one radio to another one.
Revert Channel	Revert channel refers to the current working channel when pressing [PTT] key during scan.

### Appendix III: Frequency & Tone Chart

Channel	Transmit (TX) Frequency	Receive (RX) Frequency	CTCSS Tone TX and RX	Bandwidth W/N
1				
2				
3				
4				
5				
6				
7				
8				
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10				
11				
12				
13				
14				
15				
16				